CASE REPORT

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SIMULTANEOUS FRACTURES OF SCAPHOID, TRIQUETRUM AND HAMATE

B. Baghianimoghadam[1] and F. Abolghasemzadeh-Ahangar[2]

[1]Department of Orthopedic Surgery, Babol University of Medical Sciences, Babol, Iran
[2]Department of Orthopedic surgery, Iran University of Medical Sciences, Tehran, Iran

CASE PRESENTATION

In September of 2014, a 19-year-old man has presented in our hospital with wrist pain after a motor vehicle accident. During primary physical examination wrist motion was restricted at all directions due to pain and wrist was painful during palpation. A primary radiography was taken from wrist which only a scaphoid fracture was detected and due to swelling a volar splint including thumb was done for the patient (fig. 1). Another anteroposterior (AP) and lateral radiography in splint was ordered for the patient. In second film, a transverse fracture was detected in triquetrum and also hamate bones of the wrist (fig. 2).

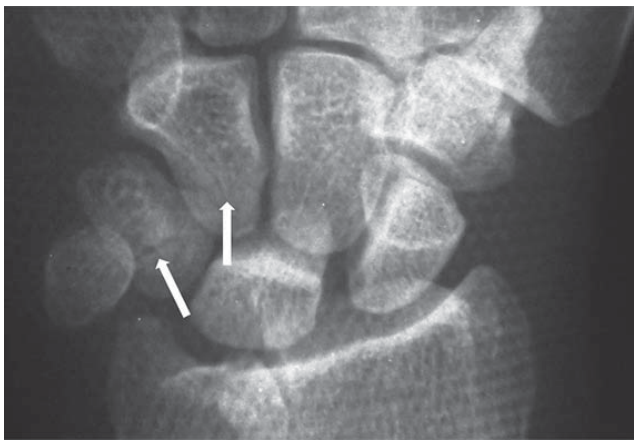

Fig. 1. Primary radiography of wrist, Scaphoid fracture is apparent (the arrow)

Fig. 2. Secondary radiography of wrist, triquetrum and hamate fractures (the arrows)

DISCUSSION

Scaphoid facture is one of the most common injuries of carpal bones as it accounts about 69% of wrist injuries [1, 2, 3]. Triquetrum is the second popular carpal bone that might be injured [3, 4]; but hamate fractures are rare [3, 4, 5]. Simultaneous fractures of these bones are entirely rare and were not reported to be diagnosed in plane radiography. The important point of our patient was the primary radiograph, which was taken in AP view, and only revealed the scaphoid fracture while during second picture, which was done in radial deviation, the fractures of other two bones were shown. This showed the extent of possible misdiagnosis which could be done during assessment of wrist injuries and must be considered.

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Corresponding author:
Behnam Baghianimoghadam
Resident in orthopedic surgery
Shahid Beheshti Hospital
Babol University of Medical Sciences
Keshvari Square, Babol, Iran
e-mail: Behnam.Baghian@gmail.com